Amendments to the Claims

The following listing of claims will replace all prior versions and listings of claims in the application:

Listing of Claims:

1-23 (Canceled).

24. (Currently amended) A method of establishing an adhesive force, said method comprising the steps of:

using a flexible beam to apply a seta to a surface with a force perpendicular to said surface so as to produce a preload an adhesive force of between about 0.01 and 0.10 grams of said seta;

using the flexible beam to orient said seta parallel to said surface while maintaining the preload force; and

using the flexible beam to pull said seta with a force parallel to said surface.

- 25. (Original) The method of claim 24 wherein said adhesive force is greater than the cumulative force of said applying and pulling steps.
- 26. (Original) The method of claim 24 further comprising the step of eliminating said adhesive force by creating a force to produce a detachment angle between said seta and said surface.
- 27. (Original) The method of claim 26 wherein said eliminating step includes a step of creating a force to produce a detachment angle of between about 25° and 35° between said seta and said surface.
- 28. (Original) The method of claim 26 wherein said eliminating step includes the step of: creating a force to produce a detachment angle of approximately 30° between said seta and said surface.

29. (Previously Presented) The method of claim 24 wherein said flexible beam produces a preload force while maintaining a substantially parallel alignment of the seta with the surface.

30-35 (Canceled).

36. (Currently amended) A method of establishing an adhesive force, said method comprising the steps of:

using a flexible beam to apply a seta to a surface with a force perpendicular to said surface so as to produce a preload an adhesive force of between about 0.01 and 0.10 grams of said seta;

using the flexible beam to orient said seta parallel to said surface while maintaining the preload force; and

using the flexible beam to pull said seta at a velocity to increase an adhesive force exerted by said seta on said surface.

37. (Currently amended) A method of establishing an adhesive force, said method comprising the steps of:

using a flexible beam to apply a plurality of protrusions on a supporting structure to a surface with a force perpendicular to said surface so as to <u>produce a preload an-adhesive force of between about 0.01 and 0.10 grams of said plurality of protrusions</u>;

using the flexible beam to orient said plurality of protrusions parallel to said surface while maintaining the preload force; and

using the flexible beam to pull said plurality of protrusions with a force parallel to said surface.

38. (Currently amended) A method of establishing an adhesive force, said method comprising the steps of:

using a flexible beam to apply a plurality of protrusions on a supporting structure to a surface with a force perpendicular to said surface so as to <u>produce a preload an-adhesive force of between about 0.01 and 0.10 grams of said plurality of protrusions</u>;

using the flexible beam to orient said plurality of protrusions parallel to said surface while maintaining the preload force; and

using the flexible beam to pull said plurality of protrusions at a velocity to increase an adhesive force exerted by said plurality of protrusions on said surface.

- 39. (Previously Presented) The method of claims 37 or 38 wherein the supporting structure is a substantially planar substrate.
- 40. (Previously Presented) The method of claims 37 or 38 wherein the supporting structure is a shaft.
- 41-50 (Canceled).
- 51. (New) A method of establishing an adhesive force, said method comprising the steps of: using a flexible beam to apply a plurality of protrusions on a supporting structure to a surface with a force perpendicular to said surface to produce an adhesive preload force while maintaining a substantially parallel alignment of said plurality of protrusions with said surface; and

using the flexible beam to pull said plurality of protrusions with a force parallel to said surface.